

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend claim 6, 11 and 17 and add new claims 24-29 as follows:

LISTING OF CLAIMS:

Claims 1-5 (Canceled)

6. (Currently Amended) An image pick-up device comprising:
a sensor which picks up an image through a lens;
a setting unit which sets chromatic aberration factors based on the image data picked up from a predetermined pattern, wherein said predetermined pattern corresponds to a pick-up resolution; and
a correction unit which corrects image data picked up from an original image by using the chromatic aberration factors set by the setting unit.
7. (Previously Presented) An image pick-up device as claimed in claim 6, wherein the predetermined pattern is formed on a chromatic aberration board.
8. (Previously Presented) An image pick-up device as claimed in claim 7, wherein the chromatic aberration board is fixed in an area near a document platen.
9. (Previously Presented) An image pick-up device as claimed in claim 6, wherein the predetermined pattern is a ladder pattern.

10. (Previously Presented) An image pick-up device as claimed in claim 6, wherein the chromatic aberration factors are set for each color component.

11. (Currently Amended) An image pick-up device comprising:
a sensor which picks up an image through a lens;
a pattern image with a predetermined pattern, wherein said predetermined pattern corresponds to a pick-up resolution;

a calculation unit which calculates chromatic aberration factors based on the image data picked up from the pattern image;

a memory which stores the calculated chromatic aberration factors; and

a correction unit which corrects image data picked up from an original image based on the stored chromatic aberration factors.

12. (Previously Presented) An image pick-up device as claimed in claim 11, wherein the pattern image is formed on a chromatic aberration board.

13. (Previously Presented) An image pick-up device as claimed in claim 12, wherein the chromatic aberration board is fixed in an area near a document platen.

14. (Previously Presented) An image pick-up device as claimed in claim 11, wherein the predetermined pattern is a ladder pattern.

15. (Previously Presented) An image pick-up device as claimed in claim 11, wherein the memory is a line memory.

16. (Previously Presented) An image pick-up device as claimed in claim 11, wherein the chromatic aberration factors are stored in the memory for each color component.

17. (Currently Amended) An image pick-up device comprising:
a sensor which picks up an image through a lens;
a pattern image with a predetermined pattern, wherein said predetermined pattern corresponds to a pick-up resolution;
a determining unit which determines a character amount of the image data picked up from the pattern image;
a setting unit which sets chromatic aberration factors based on the character amount; and
a correction unit which corrects image data picked up from an original image by using the chromatic aberration factors set by the setting unit.

18. (Previously Presented) An image pick-up device claimed in claim 17, wherein the device further comprises a memory which stores the determined character amount and outputs the character amount to the setting unit, and the setting unit includes a table which stores the relationship between the chromatic aberration factors and the character amount.

19. (Previously Presented) An image pick-up device claimed in claim 17, wherein the device further comprises an extraction unit which extracts a changing point of the character amount, and a memory which stores the changing point and outputs the changing point to the setting unit, and the setting unit includes a table which stores the relationship between the chromatic aberration factors and the changing point.

20. (Previously Presented) An image pick-up device as claimed in claim 17, wherein the pattern image is formed on a chromatic aberration board.

21. (Previously Presented) An image pick-up device as claimed in claim 20, wherein the chromatic aberration board is fixed in an area near a document platen.

22. (Previously Presented) An image pick-up device as claimed in claim 17, wherein the predetermined pattern is a ladder pattern.

23. (Previously Presented) An image pick-up device as claimed in claim 17, wherein the chromatic aberration factors are set for each color component.

24. (New) An image pick-up device as claimed in claim 9, wherein the number of vertical lines of the ladder pattern corresponds to a ratio of one for every n pixels in accordance with the pick-up resolution.

25. (New) An image pick-up device as claimed in claim 14, wherein the number of vertical lines of the ladder pattern corresponds to a ratio of one for every n pixels in accordance with the pick-up resolution.

26. (New) An image pick-up device as claimed in claim 22, wherein the number of vertical lines of the ladder pattern corresponds to a ratio of one for every n pixels in accordance with the pick-up resolution.

27. (New) An image pick-up device as claimed in claim 9, wherein a width of the ladder pattern is equal to a width of a plurality of pixels in an auxiliary scanning direction and a length of the ladder pattern is equal to a length of an entire scanning span in a main scanning direction.

28. (New) An image pick-up device as claimed in claim 14, wherein a width of the ladder pattern is equal to a width of a plurality of pixels in an auxiliary scanning direction and a length of the ladder pattern is equal to a length of an entire scanning span in a main scanning direction.

29. (New) An image pick-up device as claimed in claim 22, wherein a width of the ladder pattern is equal to a width of a plurality of pixels in an auxiliary scanning direction and a length of the ladder pattern is equal to a length of an entire scanning span in a main scanning direction.